

PJ X3241N

XGA 3,300 lm

PJ X3241

XGA 3,300 lm

PJ WX3231N

WXGA 2,500 lm

PJ X3131

XGA 2,500 lm



Powerful lightweight projectors

RICOH

Opening the world of projectors to everyone

Weighing in at 2 kg or under, Ricoh's Standard Mobile Projectors are designed for maximum portability and superb performance. They require less space than a piece of A4 paper and stands just as tall as a standard ID card. Combined with up to 3300 lumens and 3-LCD system clarity, they offer a compelling projection presentation for various room sizes – and under any ambient lighting for a truly stunning presentation every time.



Use your iPad for a paperless, environmentally-friendly meeting

With the free Ricoh Tamago Presenter software available for download, you can conduct business meetings and presentations smoothly with an iPad or iPad2 via wireless LAN. Once an iPad and a Ricoh network projector are connected under the same broadband cast domain, the projector will display PDF data stored on the iPad and can be shared with other participants via their iPad.

*Free download from the AppStore on an iPad/iPad 2

Standard model features

Compact and lightweight

This projector series requires less space than a piece of A4 paper and stands as tall as a standard ID card – compact is its middle name. Set it up by the side of your desk or in the corner of a room in your client's office. Starting at a weight of just 1.8 kilograms, they're highly portable.

3-LCD system

Our projectors use a 3-LCD system that splits the projected light into the three primary colours (red, green and blue) and uses a prism to fuse them back together. This system boasts excellent colour reproduction and brightness.

User logo function

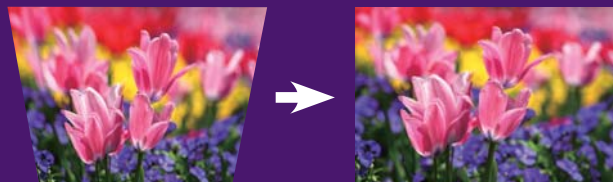
A company logo or standby message can be displayed while the projector is starting up or when there is no signal.

Blackboard mode

Adjust the hue of the projected image to compensate for the colour of the screen, such as when projecting onto a blackboard or dark coloured wall.

Auto keystone function

When keystone distortion in the vertical direction is detected in the projected image, compensation is done automatically to match the angle that the projector is set up. This function is useful when you need to set up quickly while visiting a customer or presenting offsite from your office.



Quick start and quick shutdown

Start-up time for this series is just eight seconds from turning the power on – so your meetings and presentations can be started right away. To shut down simply unplug the cord and put away the projector.

Password setting and key lock

The projector can be protected with a password to limit access and ensure security. The key lock function is also useful to prevent people from making mistakes while operating the projector.



*network models PJ WX3231N & PJ X3241N only

PJ WX3231N & PJ X3241N extra features

Computer-free presentations

JPEG images and MPEG-1 or MPEG-2 can be projected directly from a USB device. Convert Microsoft PowerPoint files to JPEG and store them on a USB device, enabling you to present anywhere without a computer.

Voice guidance function

The voice guidance function announces problems with the projector, such as a faulty cooling fan or dirty air filter.

HDMI terminal

Connect DVD players or other video and audio equipment via a digital signal using a single cable.

Multiscreen function

By installing the network utility, you can project four different images to four separate projectors from a single computer for an even larger projection.

Projector Management Utility

Manage and monitor multiple projectors on the same network, such as changing their settings or turning the power off via a computer. PJLink compatibility allows the user to manage other brands of PJLink compatible network projectors.

Natural Colour Enhancer (NCE)

These projectors use NCE, a colour compensation technology developed by Ricoh. NCE instantly differentiates between computer graphics and natural images, improves poor colour reproduction in dark areas, and reproduces vivid colors.



Supports both wired and wireless LAN

You can easily connect to a wired or wireless LAN using Ricoh's own Network Utility, or the 'Network Projector' function, standard in Windows Vista and Windows 7, making it possible to present cable-free.

Status notification by email

Automatic notification of errors or lamp maintenance can be sent to a specified email address.

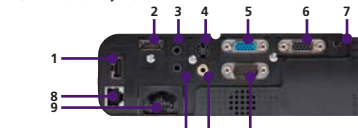
Mouse remote control (accessory)

Use this feature to operate the projector as a mouse pointer for the computer.

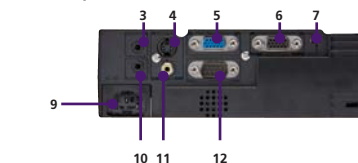
Specifications

		PJ WX3231N	PJ X3241N	PJ X3241	PJ X3131
System		3 transparent liquid crystal panels			
Resolution		1,024,000 pixels (1,280x800)	786,432 pixels (1,024x768)		
Liquid Crystal panel shape	Size	0.59 inch	0.70 inch		0.63 inch
	Aspect ratio	16:10	4:3		
Luminous flux (max brightness)		2,500 lm	3,300 lm		2,500 lm
Colour reproduction		16,770,000 colors			
Contrast ratio		320:1			
Size of projected image		30 to 300 inches			
Projection distance		0.94 to 11.58m	0.89 to 10.94 m		0.89 to 10.93 m
Lamp		High-pressure mercury lamp (190 W In standard mode, 144 W In eco mode)			
Lamp life (standard mode)		3000 hrs (standard mode); 4000 hrs (eco mode)			
RGB compatible signal	Real resolution	WXGA (1280 x 800 dots), XGA (1024 x 768 dots) SVGA (800 x 600 dots), VGA (640 x 480 dots)	XGA (1024 x 768 dots), SVGA (800 x 600 dots), VGA (640 x 480 dots)		
	Compressed resolution	UXGA (1600 x 1200 dots); SXGA (1280 x 1024 dots)	UXGA (1600 x 1200 dots), SXGA (1280 x 1024 dots), WXGA (1280 x 800 dots)		UXGA (1600 x 1200 dots) SXGA (1280 x 1024 dots)
Video compatible signal		NTSC, PAL, SECAM			
Analogue RGB compatible scanning frequency	Horizontal	15.63 to 106.25 kHz			
	Vertical	50 to 85 Hz			
USB memory compatible format		JPEG, MPEG1, MPEG2 (PS format only)		Not Applicable	
Projector lens	Lens	F: 1.7 - 1.87/ f: 19.2 - 23.1 mm	F: 1.6 - 1.76/ f: 21.5 - 25.8 mm		F: 1.7 to 1.87
	Zoom factor	1.2 X			
	Zoom	Manual			
	Focus	Manual			
Interface	RGB input	Mini D-sub 15 pin x 2			
	RGB Output	Mini D-sub 15 pin x 1 (Input and change over)			
	Video input	HDMI terminal x 1, S-VIDEO terminal, mini DIN-4 pin x 1, RCA pin jack x 1	S-VIDEO terminal mini DIN-4 pin x 1, RCA pin jack x 1		
	Audio input	3.50 mm stereo mini pin jack x 1			
	Audio output	3.50 mm stereo mini pin jack x 1			
	USB	TYPE-A (USB 2.0 High-Speed) x 1	Not Applicable		
	Wired LAN	RJ45 (100BASE-T) x 1	Not Applicable		
	Wireless LAN	IEEE 802.11b/g compliant	Not Applicable		
	Control Terminal	Mini D-sub 9 pin x 1 (RS-232C)			
	Supported OS	Network projector	Windows Vista® (Home Basic not supported) Windows® 7 (Home Premium not supported)	Not Applicable	
JPEG conversion tool		Windows® 2000, XP, 7 and Vista®	Not Applicable		
Projector Management Utility		Windows® 2000, XP, 7 and Vista® PJLink Class 1 compatible	Not Applicable		
Built-in speaker		1 W mono			
Dimensions (W x D x H) (excluding protrusions)		295 x 196 x 82 mm			272 x 189 X 82 mm
Weight		1.9 kg	2.0 kg	1.9 kg	1.8 kg
Power consumption	While operating	Std mode: 280 W or less; Eco mode: 235 W			
	In standby	-	-	0.4 W	
	In standby Network ON	8.0 W	8.0 W	Not Applicable	
	In standby Network OFF	0.4 W	0.4 W	Not Applicable	
Power		100 V - 240 V (50/60Hz)			
Consumables		Lamp, Filter			

PJ WX3231N/X3241N



PJ X3241/X3131



1. USB
2. HDMI
3. AUDIO IN
4. S-VIDEO
5. COMPUTER 1 IN
6. COMPUTER 2 IN
7. MONITOR OUT
8. CHANGE OVER SWITCH
9. AC IN
10. AUDIO OUT
11. VIDEO
12. CONTROL

PJ WX3231N/X3241N



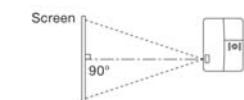
PJ X3241/X3131



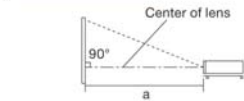
1. ON/STAND BY button
2. FREEZE button
3. RESIZE button
4. MUTE button
5. ENTER button
6. MOUSE CONTROL button

PJ WX3231N

As seen from above



As seen from the side



The distance from the lens to the screen is a in meters and the supported range is 0.94 m to 11.58 m. The center of the lens is at the bottom edge of the screen.

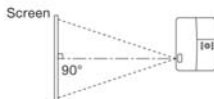
$$a \text{ (Shortest)} = \frac{\text{Size of the projected image (diagonal)} - 0.758}{31.022}$$

$$a \text{ (Longest)} = \frac{\text{Size of the projected image (diagonal)} - 0.643}{25.845}$$

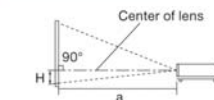
Size of the projected image (diagonal) (cm)	Projection distance a (m)	
	Shortest (maximum zoom)	Longest (minimum zoom)
30 (76)	0.94	1.14
40 (102)	1.27	1.52
50 (127)	1.59	1.91
60 (152)	1.91	2.30
70 (178)	2.23	2.68
80 (203)	2.55	3.07
90 (229)	2.88	3.46
100 (254)	3.20	3.84
120 (305)	3.84	4.62
150 (381)	4.81	5.78
200 (508)	6.42	7.71
250 (635)	8.03	9.65
300 (762)	9.65	11.58

PJ X3241N / X3241 / X3131

As seen from above



As seen from the side



The distance from the lens to the screen is a in meters and the supported range is 0.89 m to 10.94 m. The distance from the center of the lens to the bottom edge of the screen.

$$a \text{ (Shortest)} = \frac{\text{Size of the projected image (diagonal)} - 0.890}{32.863}$$

$$a \text{ (Longest)} = \frac{\text{Size of the projected image (diagonal)} - 0.748}{27.363}$$

$$a \text{ (Shortest)} = \frac{\text{Size of the projected image (diagonal)} - 0.795}{32.885}$$

$$a \text{ (Longest)} = \frac{\text{Size of the projected image (diagonal)} - 0.673}{27.397}$$

Size of the projected image (cm)	Projection distance a (m)		Height (H) (cm)
	Shortest (maximum zoom)	Longest (minimum zoom)	
30 (76)	0.89	1.07	6.50
40 (102)	1.19	1.44	8.70
50 (127)	1.49 (1.50*)	1.80	10.90
60 (152)	1.80	2.17	13.10
70 (178)	2.10	2.53	15.20
80 (203)	2.41	2.90	17.40
90 (229)	2.71	3.26	19.60
100 (254)	3.02	3.63	21.80
120 (305)	3.62 (3.63*)	4.36	26.10
150 (381)	4.54	5.46 (5.45*)	32.70
200 (508)	6.06	7.28	43.50
250 (635)	7.58	9.11 (9.10*)	54.40
300 (762)	9.10	10.94 (10.93*)	65.30

* The values in parentheses () are for the PJ X3241, X3131 series.

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